

# YF8U13-050UA1XLEAX

Sensor/actuator cable

**PLUG CONNECTORS AND CABLES** 





### Ordering information

Туре	Part no.
YF8U13-050UA1XLEAX	2094788

Other models and accessories → www.sick.com/Sensor\_actuator\_cable



#### Detailed technical data

#### **Technical specifications**

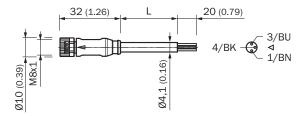
rechnical specifications	
Accessory group	Plug connectors and cables
Accessory family	Connecting cables
Connection type head A	Female connector, M8, 3-pin, straight, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.4 Nm
Width across flats	9
Cable	5 m, 3-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	4.1 mm
Conductor cross section	0.25 mm <sup>2</sup>
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 10 x cable diameter
Bending cycles	10,000,000
Nominal voltage, cable	300 V AC
Test voltage, cable	2,500 V AC
Reference voltage	
	50 V AC
	60 V DC
Rated impulse voltage	1.5 kV
Current loading	4 A

Travelling distance         10 m           Acceleration         ≤ 10 m/s²           Signal type         Sensor/actuator cable           Torsion force         180° / 1 m           Torsion cycles         2,000,000           Cycles per minutes         35           Application         Zones with oils and lubricants prag chain operation Robot           Authorizations         U.           UL File No.         E335179           Enclosure rating         IP65 / IP66K / IP67           Ambient operating temperature         -25 °C +80 °C           Stationary position         -40 °C +80 °C           Drag chain operation         -25 °C +80 °C           Contamination rating         3           Insulation resistance         100 MΩ           Overvoltage category         III           Thermal resistance, piping         Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2		
Acceleration ≤ 10 m/s²  Signal type Sensor/actuator cable  Torsion force 180° / 1 m  Zon00,000  Cycles per minutes 35  Application Zones with oils and lubricants Drag chain operation Robot UL  UL File No. E335179  Enclosure rating IP65 / IP66K / IP67  Ambient operating temperature Flexible use Stationary position Drag chain operation Head  Contamination rating 3  Insulation resistance 100 MΩ  Covervoltage category III  Specific insulation resistance 30 mΩ  Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Traversing speed	3 m/s
Signal type       Sensor/actuator cable         Torsion force       180° / 1 m         Torsion cycles       2,000,000         Cycles per minutes       35         Application       Zones with oils and lubricants Drag chain operation Robot         Authorizations       UL         UL File No.       E335179         Enclosure rating       IP65 / IP66K / IP67         Ambient operating temperature       -25°C+80°C         Place of Contamination paration Drag chain operation Head       -25°C+80°C         Contamination rating       3         Insulation resistance       100 MΩ         Overvoltage category       III         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332·1,	Travelling distance	10 m
Torsion force 180° / 1 m  Torsion cycles 2,000,000  Cycles per minutes 35  Application 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants brag chain operation Robot 2cones with oils and lubricants 2cones with oils and	Acceleration	≤ 10 m/s²
Torsion cycles       2,000,000         Cycles per minutes       35         Application       Zones with oils and lubricants Drag chain operation Robot         Authorizations       UL         UL File No.       E335179         Enclosure rating       IP65 / IP66K / IP67         Ambient operating temperature       -25 °C +80 °C         Flexible use Stationary position Drag chain operation       -40 °C +80 °C         Drag chain operation       -25 °C +80 °C         -25 °C +80 °C       -25 °C +85 °C         Contamination rating       3         Insulation resistance       100 MΩ         Overvoltage category       III         Specific insulation resistance       30 mΩ         Thermal resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Signal type	Sensor/actuator cable
Cycles per minutes       35         Application       Zones with oils and lubricants Drag chain operation Robot         Authorizations       UL         UL File No.       E335179         Enclosure rating       IP65 / IP66K / IP67         Ambient operating temperature       Flexible use -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C         Drag chain operation Head       -25 °C +80 °C -25 °C +85 °C         Contamination rating Insulation resistance       30 MΩ         Overvoltage category       III         Specific insulation resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1 m
Application  Zones with oils and lubricants Drag chain operation Robot  UL  UL File No. Enclosure rating  Plesible use Stationary position Drag chain operation Plesible use Plexible use Stationary position Drag chain operation Press oc +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Contamination rating Insulation resistance  Overvoltage category  III  Specific insulation resistance  Thermal resistance, piping  Jone Station operation  Jone Stationary position Authorizants  Jone Stationary position Plexible use -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C  Stationary position Plexible use -25 °C +85 °C  Stationary position -40 °C +80 °C -25 °C +85 °C  Stationary position -40 °C +80 °C -25 °C +85 °C  Stationary position -40 °C +80 °C -25 °C +85 °C  Stationary position -40 °C +80 °C -25 °C +85 °C  Stationary position -40 °C +80 °C	Torsion cycles	2,000,000
Drag chain operation Robot  Authorizations  UL  ULFile No.  Enclosure rating  Ambient operating temperature  Flexible use Stationary position -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C  Contamination rating  Insulation resistance  Overvoltage category  Specific insulation resistance  Thermal resistance, piping  Drag chain operation peration about 100 MΩ  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35
UL File No.  Enclosure rating  IP65 / IP66K / IP67  Ambient operating temperature  Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance  Overvoltage category  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Application	Drag chain operation
Enclosure rating  Ambient operating temperature  Flexible use  Stationary position  Drag chain operation  Head  -25 °C +80 °C  -40 °C +80 °C  -25 °C +80 °C  -25 °C +80 °C  Contamination rating  Insulation resistance  100 MΩ  Overvoltage category  III  Specific insulation resistance  30 mΩ  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Authorizations	UL
Ambient operating temperature  Flexible use Stationary position Drag chain operation Head  Contamination rating  Insulation resistance  Overvoltage category  Thermal resistance, piping  Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	UL File No.	E335179
Flexible use Stationary position $-25  ^{\circ}\text{C} \dots + 80  ^{\circ}\text{C}$ $-40  ^{\circ}\text{C} \dots + 80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots + 80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots + 80  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots + 85  ^{\circ}\text{C}$ $-25  ^{\circ}\text{C} \dots + 85  ^{\circ}\text{C}$ Contamination rating 3 Insulation resistance $100  \text{M}\Omega$ Uservoltage category III Specific insulation resistance $30  \text{m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Enclosure rating	IP65 / IP66K / IP67
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ambient operating temperature	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Flexible use	-25 °C +80 °C
Head       -25 °C +85 °C         Contamination rating       3         Insulation resistance       100 MΩ         Overvoltage category       III         Specific insulation resistance       30 mΩ         Thermal resistance, piping       Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Stationary position	-40 °C +80 °C
	Drag chain operation	-25 °C +80 °C
	Head	-25 °C +85 °C
Overvoltage category III Specific insulation resistance 30 m $\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3
Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ
Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III
	Specific insulation resistance	30 mΩ
	Thermal resistance, piping	

#### Classifications

ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

#### Dimensional drawing (Dimensions in mm (inch))



#### Recommended accessories

Other models and accessories  $\rightarrow$  www.sick.com/Sensor\_actuator\_cable

	Brief description	Туре	Part no.			
Other mounting	Other mounting accessories					
	1 piece, M8 mounting key set for SW9 with calibrated torque 0.4 Nm	TOOL-TWO4M08AF09	5337207			
Plug connectors and cables						
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	DOS-0803-G	7902077			
	<ul> <li>Connection type head A: Male connector, M8, 3-pin, straight</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm² 0.5 mm²</li> </ul>	STE-0803-G	6037322			

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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